

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72  
papers

2,939  
citations

27  
h-index

53  
g-index

75  
ext. papers

3,809  
ext. citations

7.5  
avg, IF

5.88  
L-index

#	Paper	IF	Citations
72	Uncovering the phytochemicals of root exudates and extracts of lead (Pb) tolerant <i>Chrysopogon zizanioides</i> (L.) Roberty in response to lead contamination and their effect on the chemotactic behavior of rhizospheric bacteria.. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1	5.1	1
71	Highly efficient bio-adsorption of Malachite green using Chinese Fan-Palm Biochar ( <i>Livistona chinensis</i> ). <i>Chemosphere</i> , <b>2022</b> , 287, 132282	8.4	7
70	Sustainable rural waste management using biogas technology: An analytical hierarchy process decision framework.. <i>Chemosphere</i> , <b>2022</b> , 134737	8.4	0
69	An analytical hierarchy process based decision support system for the selection of biogas up-gradation technologies.. <i>Chemosphere</i> , <b>2022</b> , 302, 134741	8.4	1
68	Progress in bioremediation of pesticide residues in the environment. <i>Environmental Engineering Research</i> , <b>2021</b> , 26, 200446-0	3.6	5
67	Advances in the development of electrodes material for improving reactor kinetics in Microbial Fuel Cells. <i>Chemosphere</i> , <b>2021</b> , 290, 133184	8.4	2
66	Batch and continuous reactor studies for the adsorption of As(III) from wastewater using a hybrid biochar loaded with transition metal oxides: Kinetics and mass transfer analysis. <i>Environmental Engineering Research</i> , <b>2021</b> , 26, 200438-0	3.6	3
65	Prevalence and hazardous impact of pharmaceutical and personal care products and antibiotics in environment: A review on emerging contaminants. <i>Environmental Research</i> , <b>2021</b> , 194, 110664	7.9	73
64	Biochar for remediation of agrochemicals and synthetic organic dyes from environmental samples: A review.. <i>Chemosphere</i> , <b>2021</b> , 272, 129917	8.4	19
63	An analysis on generic barriers to bioenergy technologies adoption in context of rural India. <i>Bioresource Technology Reports</i> , <b>2021</b> , 14, 100671	4.1	0
62	Analysis of natural wax from <i>Nelumbo nucifera</i> leaves by using polar and non-polar organic solvents. <i>Process Biochemistry</i> , <b>2021</b> , 106, 96-102	4.8	0
61	A study of external mass transfer effect on biodegradation of phenol using low-density polyethylene immobilized <i>Bacillus flexus</i> GS1 IIT (BHU) in a packed bed bioreactor. <i>Water and Environment Journal</i> , <b>2021</b> , 35, 285-294	1.7	1
60	Recent advancement in remediation of synthetic organic antibiotics from environmental matrices: Challenges and perspective. <i>Bioresource Technology</i> , <b>2021</b> , 319, 124161	11	26
59	Resource recovery and biorefinery potential of apple orchard waste in the circular bioeconomy. <i>Bioresource Technology</i> , <b>2021</b> , 321, 124496	11	39
58	Role of Antioxidant in Plant- and Microbe-Based Remediation of Metal Stress <b>2021</b> , 181-197		
57	Evaluation of seasonal variation and the optimization of reducing sugar extraction from <i>Ulva prolifera</i> biomass using thermochemical method. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 58857-58871	5.1	5
56	Construction of biotreatment platforms for aromatic hydrocarbons and their future perspectives. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 416, 125968	12.8	8

55	Bio-composite of Fe-sludge biochar immobilized with Bacillus Sp. in packed column for bio-adsorption of Methylene blue in a hybrid treatment system: Isotherm and kinetic evaluation. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 23, 101734	7	9
54	Role and significance of lytic polysaccharide monoxygenases (LPMOs) in lignocellulose deconstruction. <i>Bioresource Technology</i> , <b>2021</b> , 335, 125261	11	22
53	Silk nanodisc based edible chitosan nanocomposite coating for fresh produces: A candidate with superior thermal, hydrophobic, optical, mechanical and food properties. <i>Food Chemistry</i> , <b>2021</b> , 360, 130048	8.5	5
52	Construction of integrated system for the treatment of Acid orange 7 dye from wastewater: Optimization and growth kinetic study. <i>Bioresource Technology</i> , <b>2021</b> , 337, 125478	11	7
51	Lignocellulosic biomass-based engineered biochar composites: A facile strategy for abatement of emerging pollutants and utilization in industrial applications. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 152, 111643	16.2	10
50	Adsorptive and photocatalytic properties of metal oxides towards arsenic remediation from water: A review. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 106376	6.8	6
49	Performance evaluation of a continuous packed bed bioreactor: Bio-kinetics and external mass transfer study. <i>Ecotoxicology and Environmental Safety</i> , <b>2020</b> , 201, 110860	7	8
48	Microbial biofilm: An advanced eco-friendly approach for bioremediation <b>2020</b> , 205-219		2
47	Application of Arjuna ( <i>Terminalia arjuna</i> ) seed biochar in hybrid treatment system for the bioremediation of Congo red dye. <i>Bioresource Technology</i> , <b>2020</b> , 307, 123203	11	36
46	Collective removal of phenol and ammonia in a moving bed biofilm reactor using modified bio-carriers: Process optimization and kinetic study. <i>Bioresource Technology</i> , <b>2020</b> , 306, 123177	11	24
45	Reusability of brilliant green dye contaminated wastewater using corncob biochar and : hybrid treatment and kinetic studies. <i>Bioengineered</i> , <b>2020</b> , 11, 743-758	5.7	14
44	The molecular mechanism of vernalization in Arabidopsis and cereals: role of Flowering Locus C and its homologs. <i>Physiologia Plantarum</i> , <b>2020</b> , 170, 373-383	4.6	6
43	Biodegradation of Congo red dye in a moving bed biofilm reactor: Performance evaluation and kinetic modeling. <i>Bioresource Technology</i> , <b>2020</b> , 302, 122811	11	44
42	The Potential Application of Biochars for Dyes with an Emphasis on Azo Dyes: Analysis Through an Experimental Case Study Utilizing Fruit-Derived Biochar for the Abatement of Congo Red as the Model Pollutant <b>2020</b> , 53-76		1
41	Removal of methylene blue dye using rice husk, cow dung and sludge biochar: Characterization, application, and kinetic studies. <i>Bioresource Technology</i> , <b>2020</b> , 306, 123202	11	79
40	Hydrothermal liquefaction of rice husk and cow dung in Mixed-Bed-Rotating Pyrolyzer and application of biochar for dye removal. <i>Bioresource Technology</i> , <b>2020</b> , 309, 123294	11	45
39	Unravelling the Role of Rhizospheric Plant-Microbe Synergy in Phytoremediation: A Genomic Perspective. <i>Current Genomics</i> , <b>2020</b> , 21, 334-342	2.6	11
38	Sequestration of simulated carbon dioxide (CO) using churning cementations waste and fly-ash in a thermo-stable batch reactor (TSBR). <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 27470-27479	5.1	3

37	Adsorption of Patent Blue V from Textile Industry Wastewater Using Sterculia alata Fruit Shell Biochar: Evaluation of Efficiency and Mechanisms. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 2017	3	5
36	Preparation and characterization of novel hybrid bio-support material immobilized from <i>Pseudomonas cepacia</i> lipase and its application to enhance biodiesel production. <i>Renewable Energy</i> , <b>2020</b> , 147, 11-24	8.1	22
35	Optimization of biodiesel synthesis from nonedible oil using immobilized bio-support catalysts in jacketed packed bed bioreactor by response surface methodology. <i>Journal of Cleaner Production</i> , <b>2020</b> , 244, 118700	10.3	18
34	Biodegradation of methylene blue dye in a batch and continuous mode using biochar as packing media. <i>Environmental Research</i> , <b>2019</b> , 171, 356-364	7.9	99
33	Antibiotic resistance in major rivers in the world: A systematic review on occurrence, emergence, and management strategies. <i>Journal of Cleaner Production</i> , <b>2019</b> , 234, 1484-1505	10.3	139
32	Temperature control of fermentation bioreactor for ethanol production using IMC-PID controller. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , <b>2019</b> , 22, e00319	5.3	16
31	Performance of a biofilter with compost and activated carbon based packing material for gas-phase toluene removal under extremely high loading rates. <i>Bioresource Technology</i> , <b>2019</b> , 285, 121317	11	27
30	A novel comparative study of modified carriers in moving bed biofilm reactor for the treatment of wastewater: Process optimization and kinetic study. <i>Bioresource Technology</i> , <b>2019</b> , 281, 335-342	11	60
29	Biodiesel production from hybrid non-edible oil using bio-support beads immobilized with lipase from <i>Pseudomonas cepacia</i> . <i>Fuel</i> , <b>2019</b> , 255, 115801	7.1	32
28	Studies on optimization of naphthalene biodegradation using surface response methodology: Kinetic study and performance evaluation of a pilot scale integrated aerobic treatment plant. <i>Chemical Engineering Research and Design</i> , <b>2019</b> , 132, 240-248	5.5	13
27	Biodegradation of fluorene by neoteric LDPE immobilized <i>Pseudomonas pseudoalcaligenes</i> NRSS3 in a packed bed bioreactor and analysis of external mass transfer correlation. <i>Process Biochemistry</i> , <b>2019</b> , 77, 106-112	4.8	15
26	Potential Utility of Metal-Organic Framework-Based Platform for Sensing Pesticides. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 8797-8817	9.5	135
25	Bioremediation of Congo red dye in immobilized batch and continuous packed bed bioreactor by <i>Brevibacillus parabrevis</i> using coconut shell bio-char. <i>Bioresource Technology</i> , <b>2018</b> , 252, 37-43	11	84
24	Recent advancements in bioremediation of dye: Current status and challenges. <i>Bioresource Technology</i> , <b>2018</b> , 253, 355-367	11	287
23	Biofiltration of hydrogen sulfide: Trends and challenges. <i>Journal of Cleaner Production</i> , <b>2018</b> , 187, 131-147.3	7.3	75
22	Engineered/designer biochar for the removal of phosphate in water and wastewater. <i>Science of the Total Environment</i> , <b>2018</b> , 616-617, 1242-1260	10.2	185
21	Removal of Patent Blue (V) Dye Using Indian Bael Shell Biochar: Characterization, Application and Kinetic Studies. <i>Sustainability</i> , <b>2018</b> , 10, 2669	3.6	29
20	Characterization and compositional analysis of highly acidic karanja oil and its potential feedstock for enzymatic synthesis of biodiesel. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 15593-15602	3.6	9

19	Adsorption of hexavalent chromium from aqueous solution by activated carbon prepared from almond shell: kinetics, equilibrium and thermodynamics study <b>2018</b> , 67, 724-737		31
18	Water budgets for freshwater fish ponds of Andhra Pradesh, Orissa and West Bengal, India. <i>Water Science and Technology: Water Supply</i> , <b>2017</b> , 17, 835-841	1.4	0
17	Biofiltration of xylene using wood charcoal as the biofilter media under transient and high loading conditions. <i>Bioresource Technology</i> , <b>2017</b> , 242, 351-358	11	36
16	Catalytic ozonation of ethyl benzene using modified pumice with magnesium nitrate from polluted air. <i>International Journal of Environmental Studies</i> , <b>2017</b> , 74, 486-499	1.8	3
15	Biodegradation and kinetic study of benzene in bioreactor packed with PUF and alginate beads and immobilized with <i>Bacillus</i> sp. M3. <i>Bioresource Technology</i> , <b>2017</b> , 242, 92-100	11	49
14	Removal of hydrogen sulfide generated during anaerobic treatment of sulfate-laden wastewater using biochar: Evaluation of efficiency and mechanisms. <i>Bioresource Technology</i> , <b>2017</b> , 234, 115-121	11	82
13	Performance evaluation of Malathion biodegradation in batch and continuous packed bed bioreactor (PBBR). <i>Bioresource Technology</i> , <b>2017</b> , 227, 56-65	11	60
12	Anaerobic Bioreactors/Digesters <b>2017</b> , 261-279		10
11	Bio-filters for the Treatment of VOCs and Odors - A Review. <i>Asian Journal of Atmospheric Environment</i> , <b>2017</b> , 11, 139-152	1.3	27
10	Removal of aqueous benzene in the immobilized batch and continuous packed bed bioreactor by isolated <i>Bacillus</i> sp. M1. <i>Resource-efficient Technologies</i> , <b>2016</b> , 2, S87-S95	2	9
9	Kinetics and biofiltration of dimethyl sulfide emitted from P&P industry. <i>Biochemical Engineering Journal</i> , <b>2015</b> , 102, 108-114	4.2	13
8	Review of biotreatment techniques for volatile sulfur compounds with an emphasis on dimethyl sulfide. <i>Process Biochemistry</i> , <b>2014</b> , 49, 1543-1554	4.8	42
7	Optimization of pretreatment conditions using full factorial design and enzymatic convertibility of shea tree sawdust. <i>Biomass and Bioenergy</i> , <b>2013</b> , 48, 130-138	5.3	24
6	Biological treatment of gaseous emissions containing dimethyl sulphide generated from pulp and paper industry. <i>Bioresource Technology</i> , <b>2013</b> , 142, 420-7	11	26
5	Isolation and characterization of dimethyl sulfide (DMS)-degrading bacteria from soil and biofilter treating waste gas containing DMS from the laboratory and pulp and paper industry. <i>Applied Biochemistry and Biotechnology</i> , <b>2012</b> , 167, 1744-52	3.2	9
4	Commercializing lignocellulosic bioethanol: technology bottlenecks and possible remedies. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2010</b> , 4, 77-93	5.3	243
3	Bioreactors for treatment of VOCs and odours - a review. <i>Journal of Environmental Management</i> , <b>2010</b> , 91, 1039-54	7.9	331
2	Treatment of waste gas containing low concentration of dimethyl sulphide (DMS) in a bench-scale biofilter. <i>Bioresource Technology</i> , <b>2010</b> , 101, 2185-90	11	39

- 1 Evaluation of wet air oxidation as a pretreatment strategy for bioethanol production from rice husk and process optimization. *Biomass and Bioenergy*, **2009**, 33, 1680-1686 53 131